Boldly "X" this box if there is qualified data on this page.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: Boop/Non RQ- 2018-03-05-62 Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: (Lab Calibration) or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 12/1/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	T. Riordan	3/5/18	700	21.34	8.863	8.86	100.0	54.3	1.12306	(P) / F	(L) / F
ICV	"	"	"	21.31	8.863	8.89	100.3	53.3		(P) / F	(L) / F
CCV	"	"	1330	21.90	8.761	8.74	99.8	54.3	1.12306	(P) / F	(L) / F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
Optical: DO gain range 0.85 to 1.15; DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	T. Riordan	3/5/18	700	170831	9/18	1000	1000	(P) / F	(L) / F
ICV	"	"	"	171023	11/18	100	100	(P) / F	(L) / F
CCV	"	"	1330	180801	~~11/18~~	100	99	(P) / F	(L) / F
CCV					3/19 TR			P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	T. Riordan	3/5/18	700	171189	4/19	7.0	7.00	-16.1	(P) / F	(L) / F
Calibr.	"	"	"	171629	4/19	4.0	4.00	158.8	(P) / F	(L) / F
Calibr.	"	"	"	174997	7/19	10.0	10.00	-189.3	(P) / F	(L) / F
ICV	"	"	"	171629	4/19	4.00	4.00	159.0	(P) / F	(L) / F
CCV	"	"	1330	174997	7/19	10.00	10.07	-193.1	(P) / F	(L) / F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 173.2, slope from 4 to 7 174.9 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID: Bottle 107 RQ- 2018-03-05-163 Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: (Lab Calibration) or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 12/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Leif Boman	3/5/18	8:35	21.98	8.744 48	8.75	100.0	48.2	1.03712	(P) / F	(L) / F
ICV	"	"	1	22.04	8.744	8.75	100.1	48.2		(P) / F	(L) / F
CCV	"	"	15:15	23.04	8.578	8.63	100.7	48.2	1.03712	(P) / F	(L) / F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
Optical: DO gain range 0.85 to 1.15; DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Leif Boman	3/5/18	8:35	170831	09/18	1000	1000	(P) / F	(L) / F
ICV	"	"	1	180301	03/19	100	99	(P) / F	(L) / F
CCV	"	"	15:15	180301	03/19	100	99	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Leif Boman	3/5/18	8:35	172189	4/19	7.0	7.00	-26.4	(P) / F	(L) / F
Calibr.	"	"	1	171629	4/19	4.0	4.00	151.0	(P) / F	(L) / F
Calibr.	"	"	"	174997	7/19	10.0	10.00	-199.5	(P) / F	(L) / F
ICV	"	"	"	171629	4/19	4.0	3.99	150.8	(P) / F	(L) / F
CCV	"	"	15:15	174997	7/19	10.0	9.99	-200.8	(P) / F	(L) / F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 173.1, slope from 4 to 7 177.4 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: